

FIG. 1

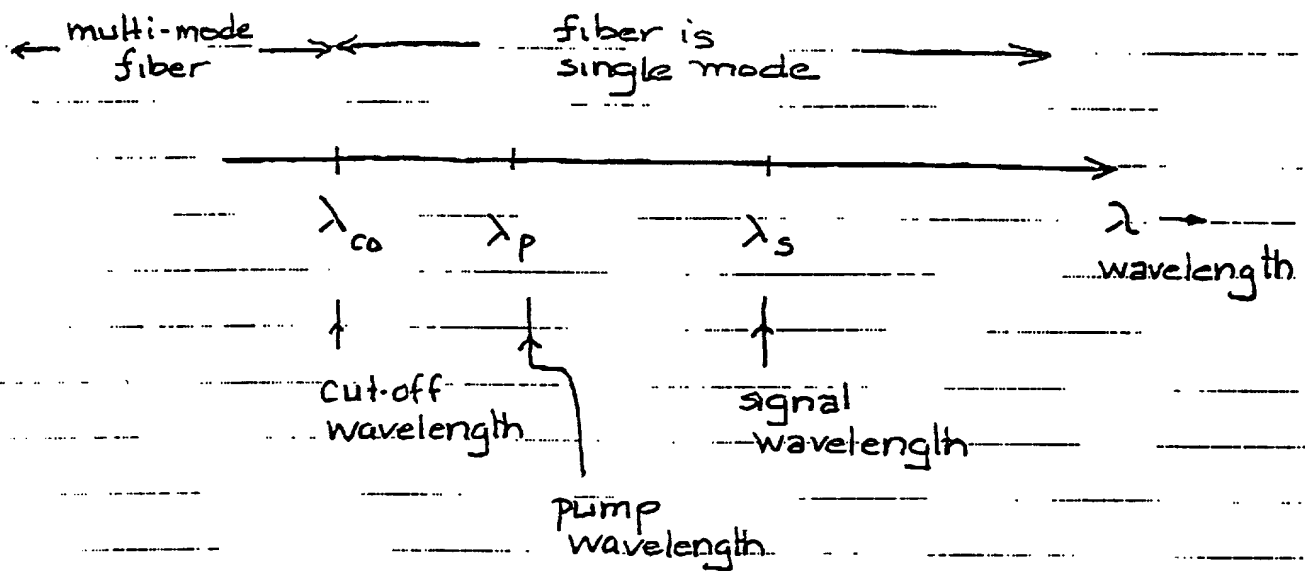


FIG. 2

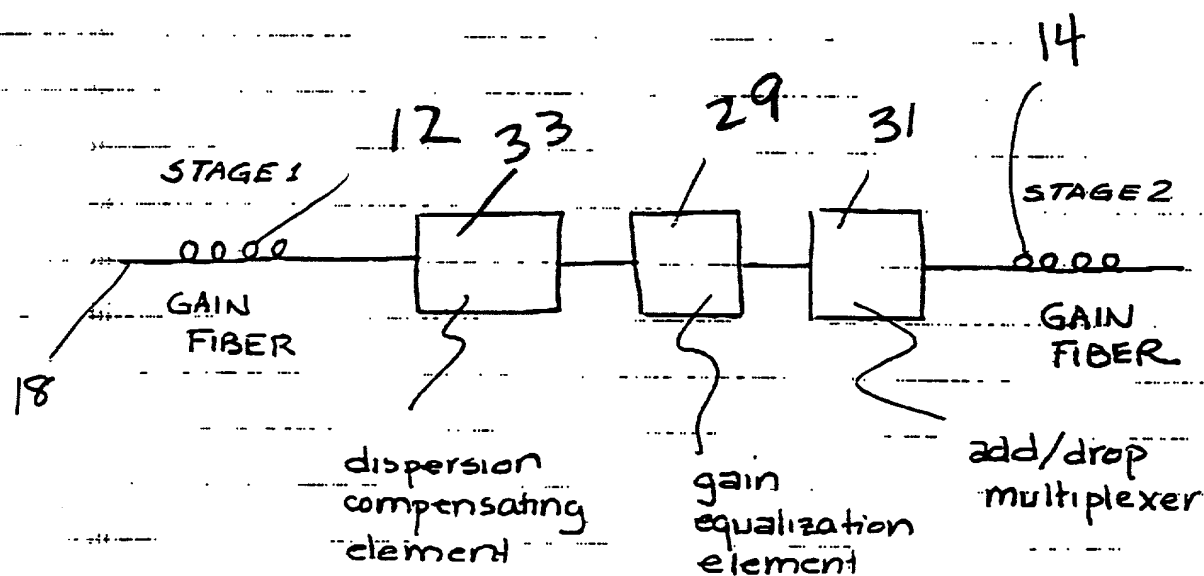


Fig. 3

FIG. 4 (continued)

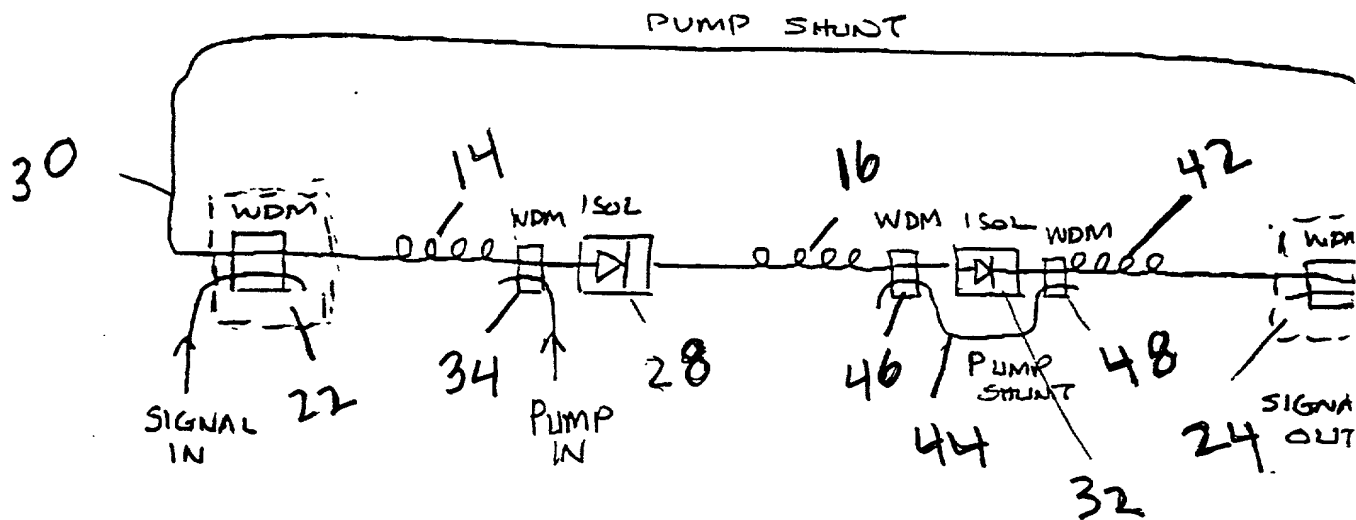


FIG. 4 (continued)

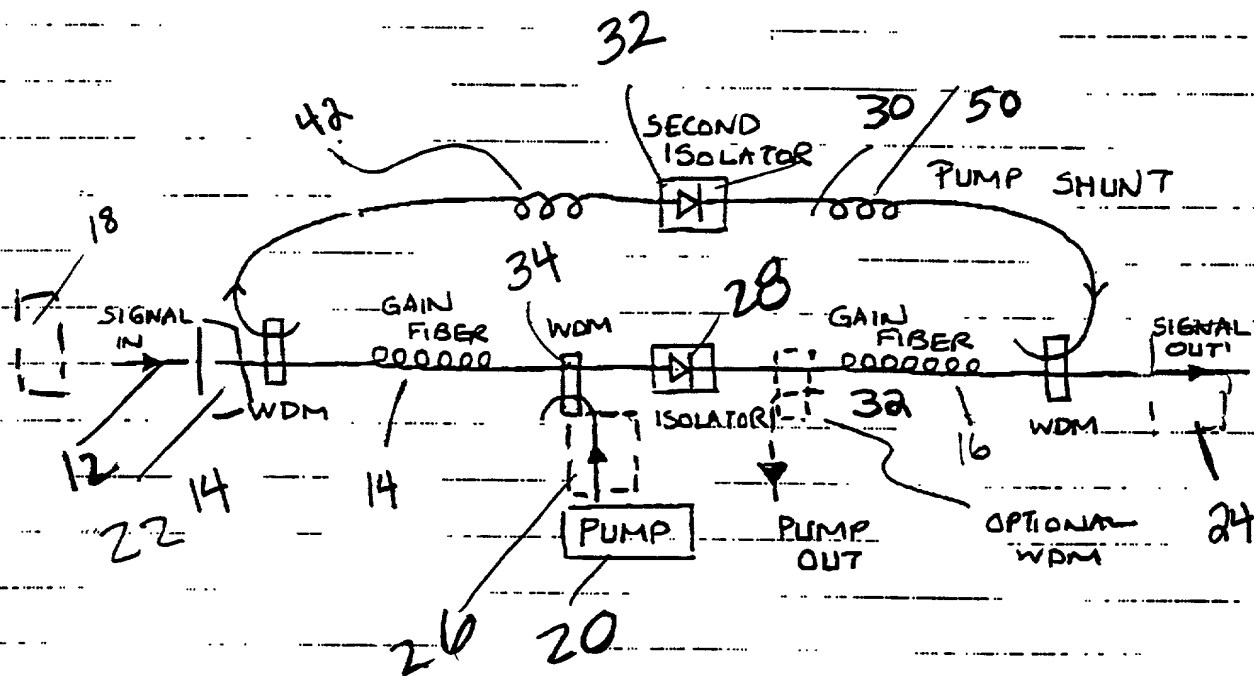


FIG. 5

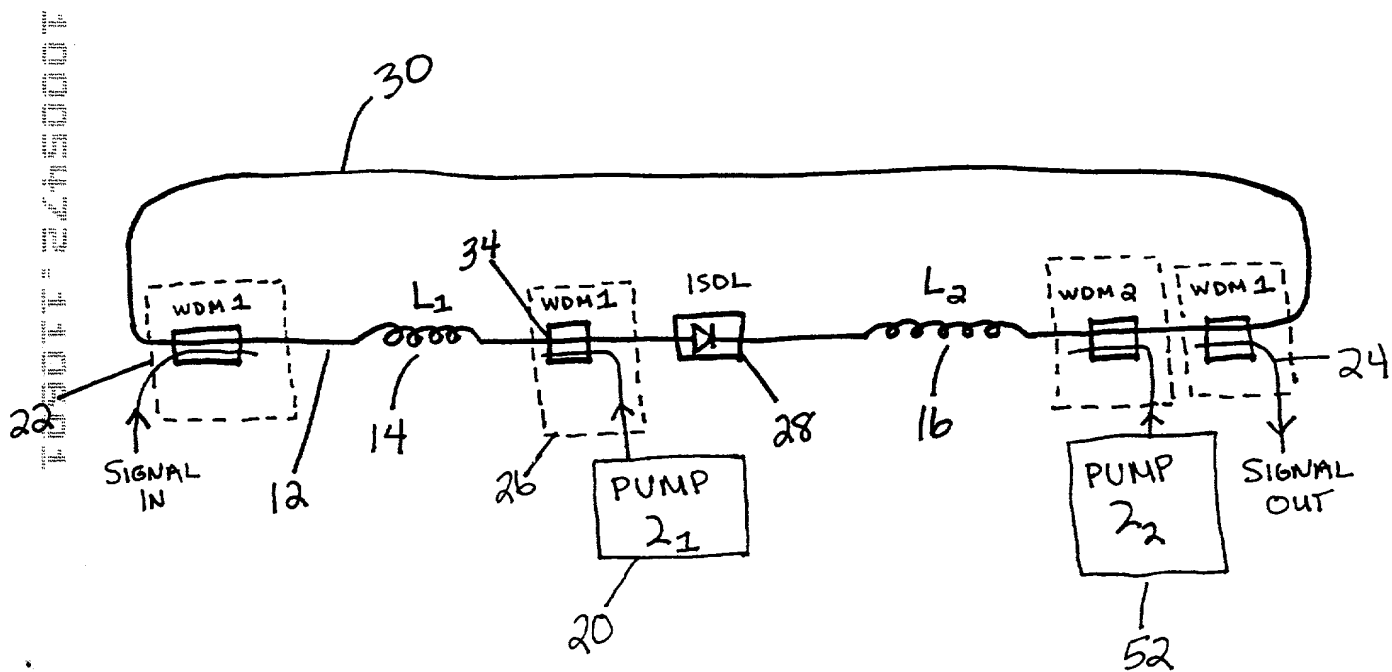


FIG. 6

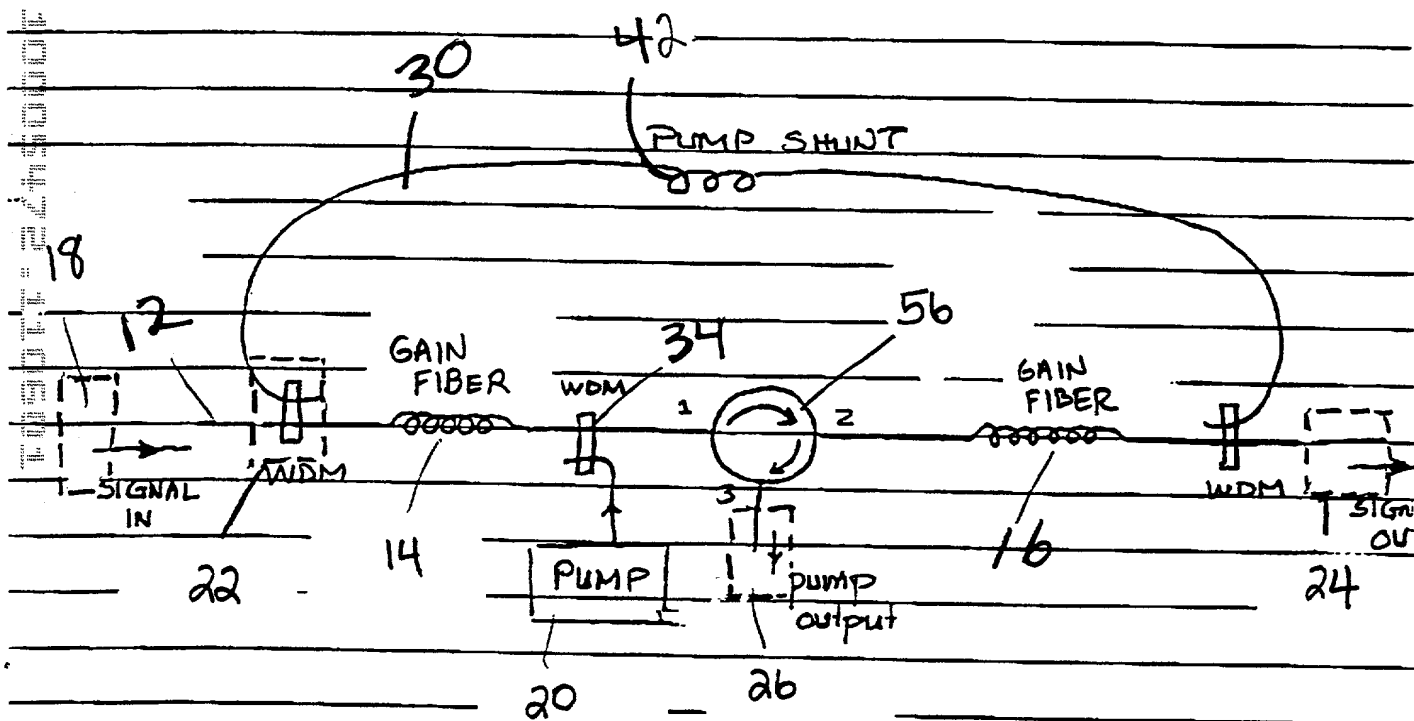


FIG. 7

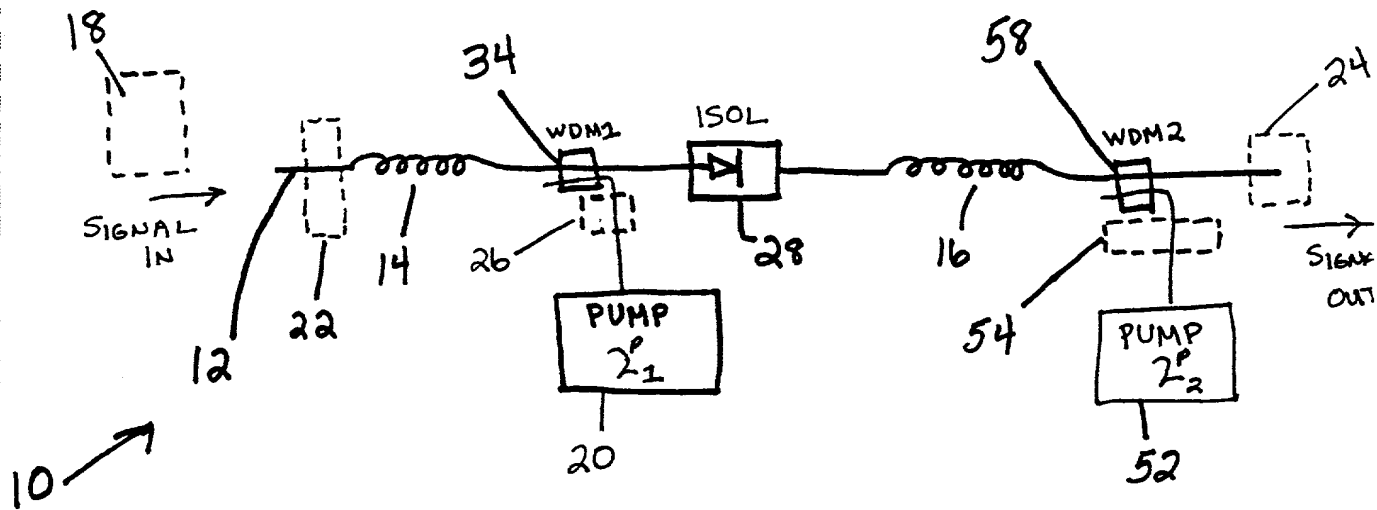


FIG. 8



FIG. 8b

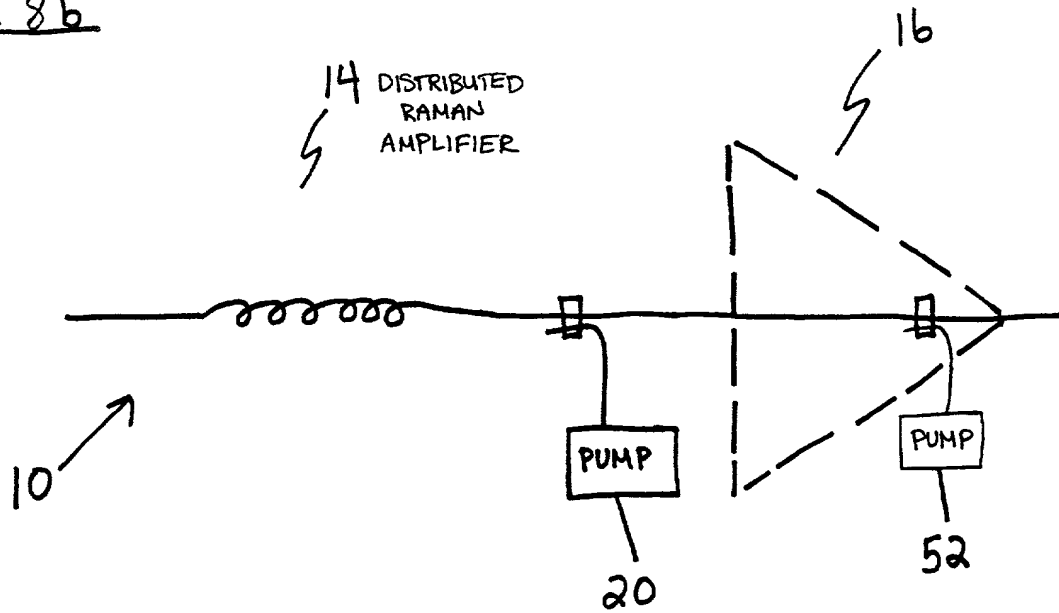
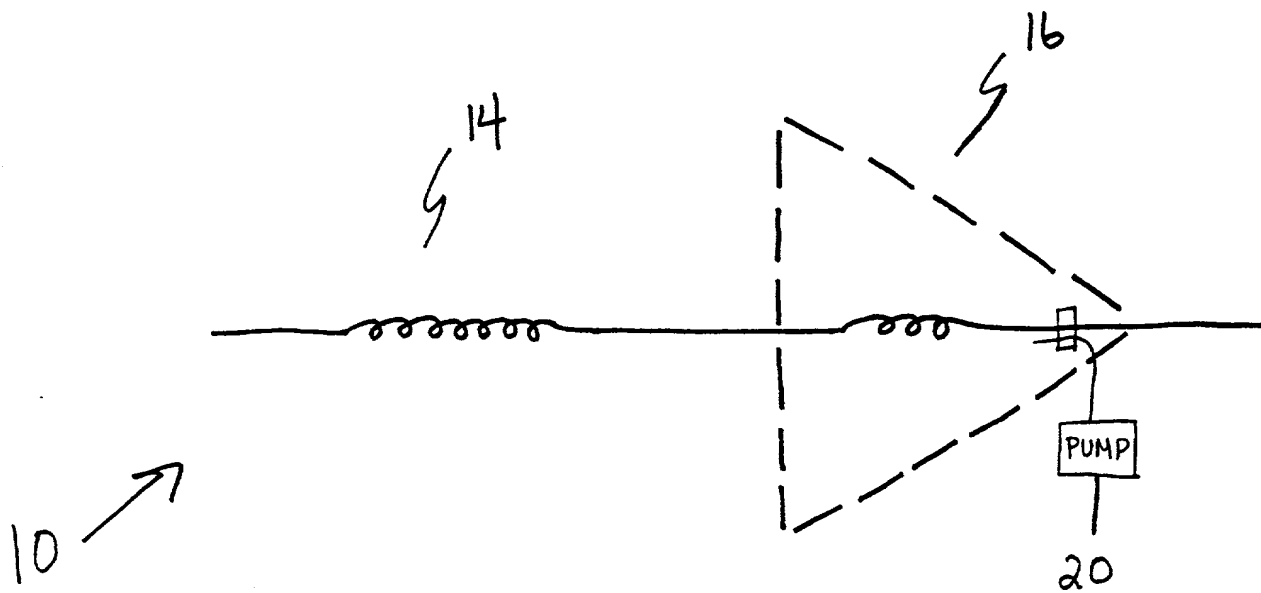


FIG. 8c



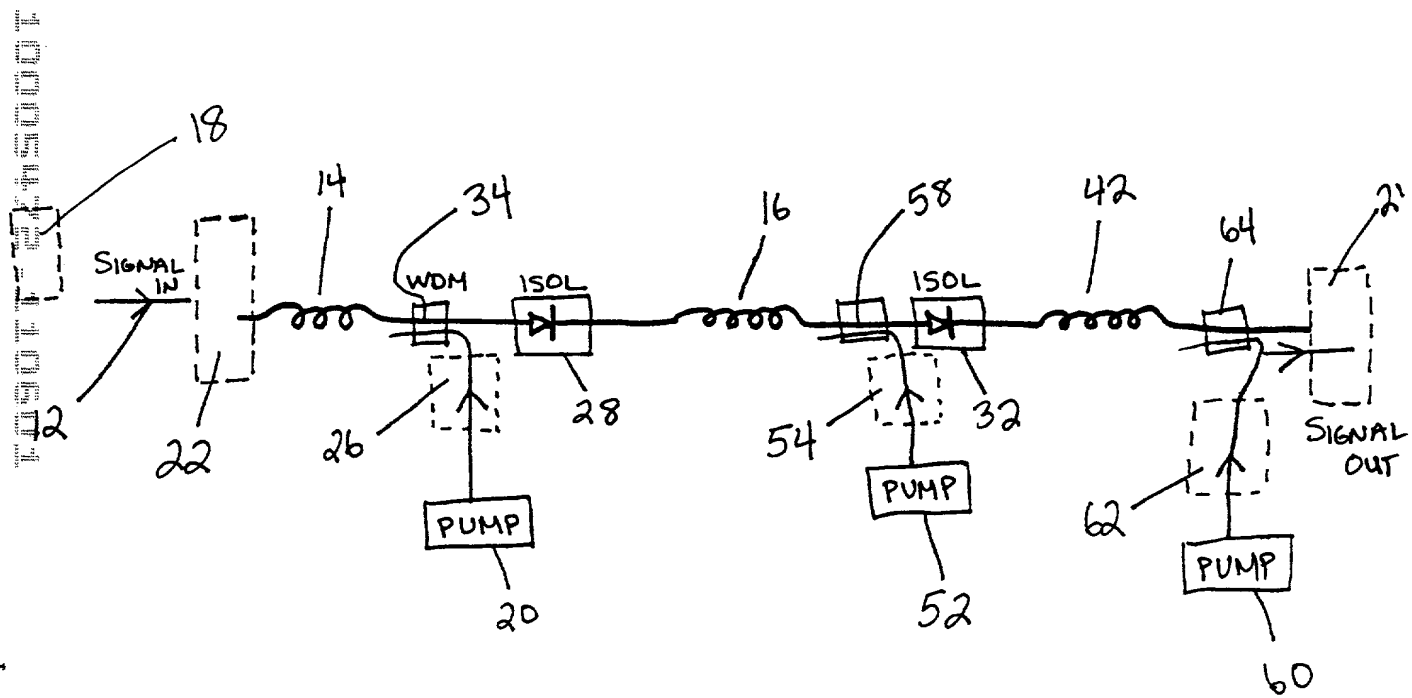


FIG. 9

PUMP SOURCE

PUMP =

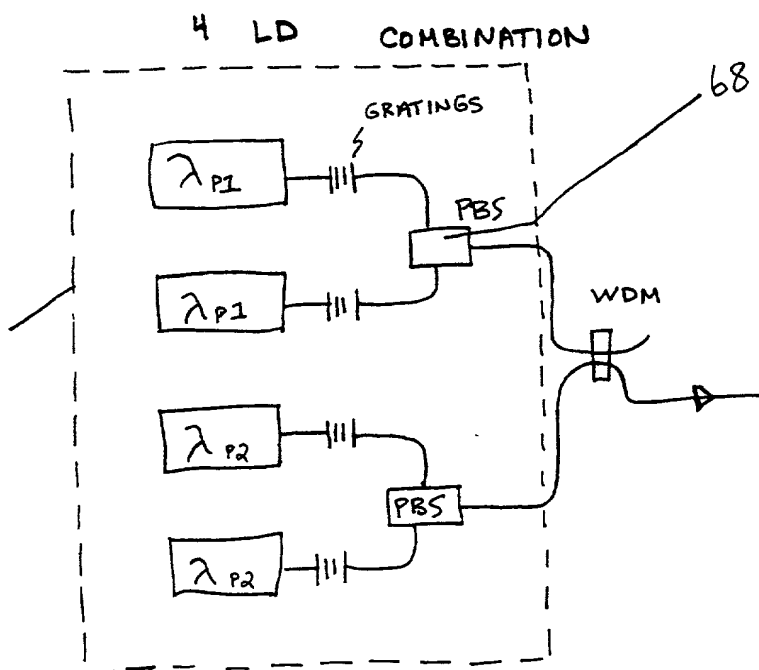


FIG. 10

# 8 LD COMBINATION

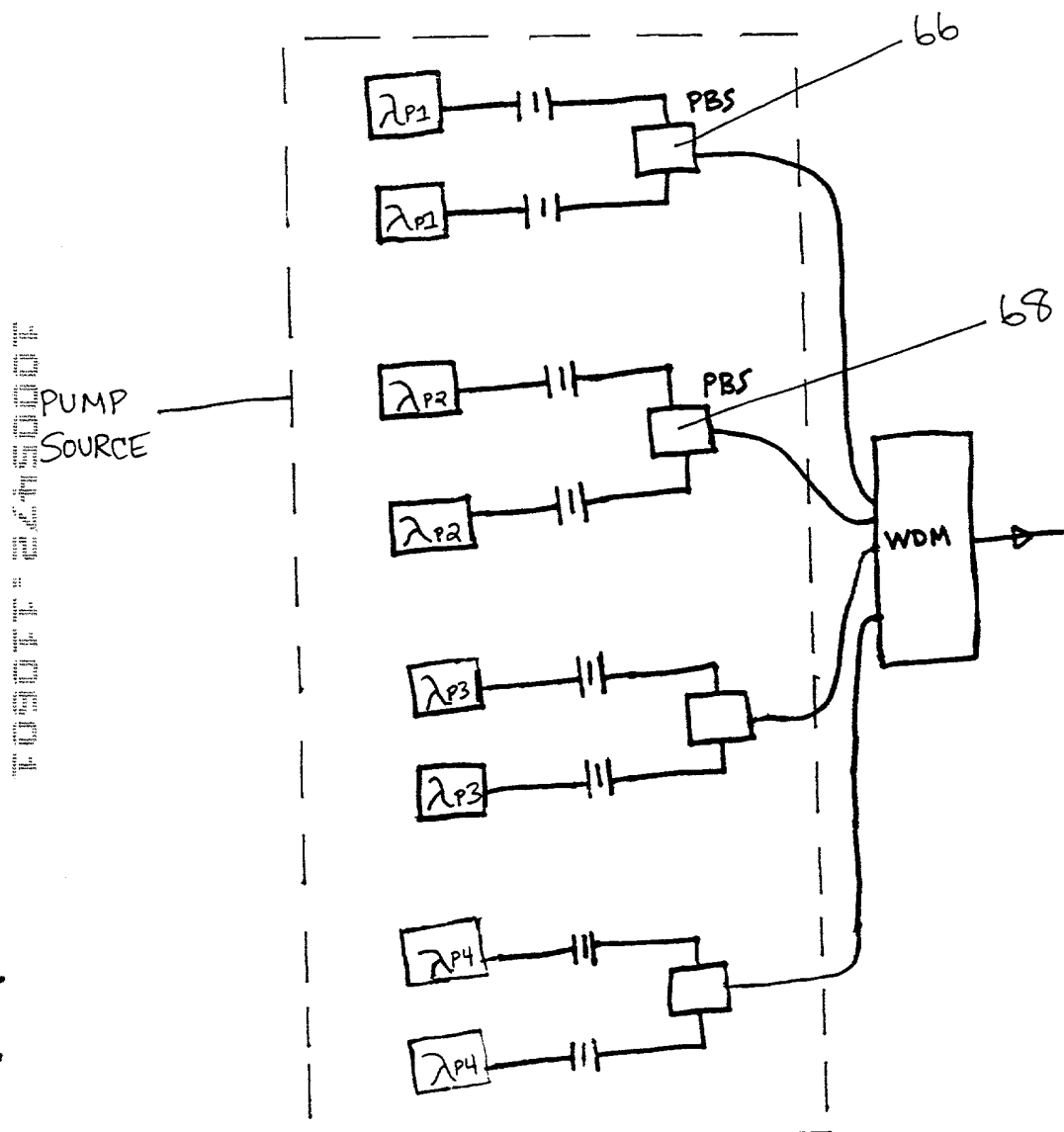


FIG. 11

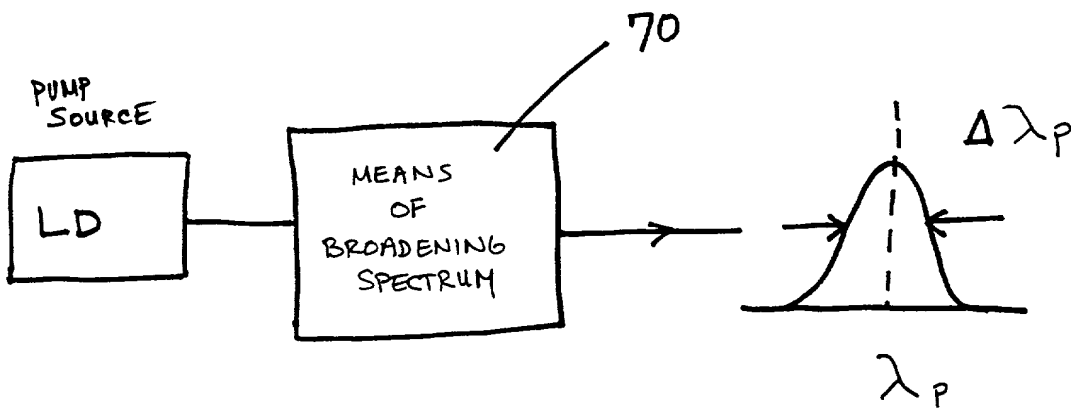


FIG. 12

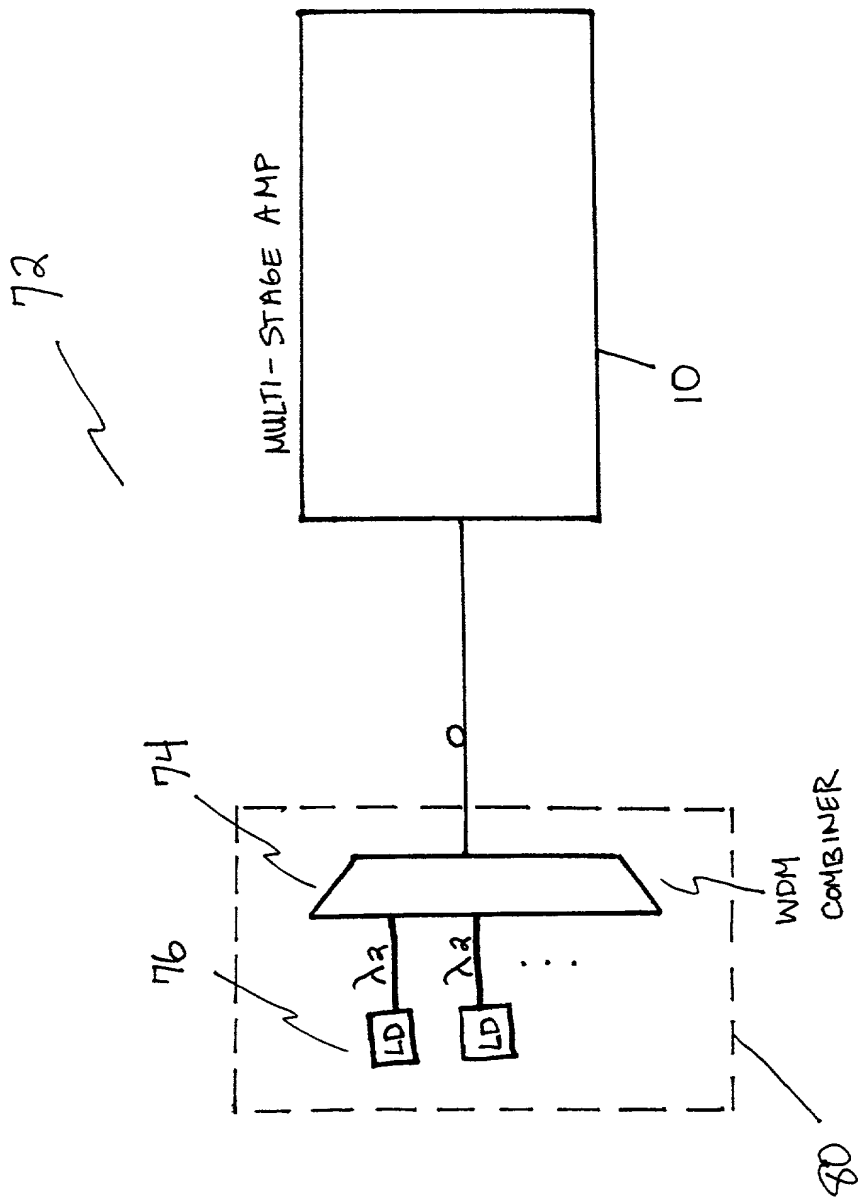
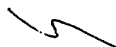


FIG. 13

78



MULTI-STAGE AMP

10

80

82

RCVR

RCVR

...

WDM

SPLITTER

82

FIG. 14

86

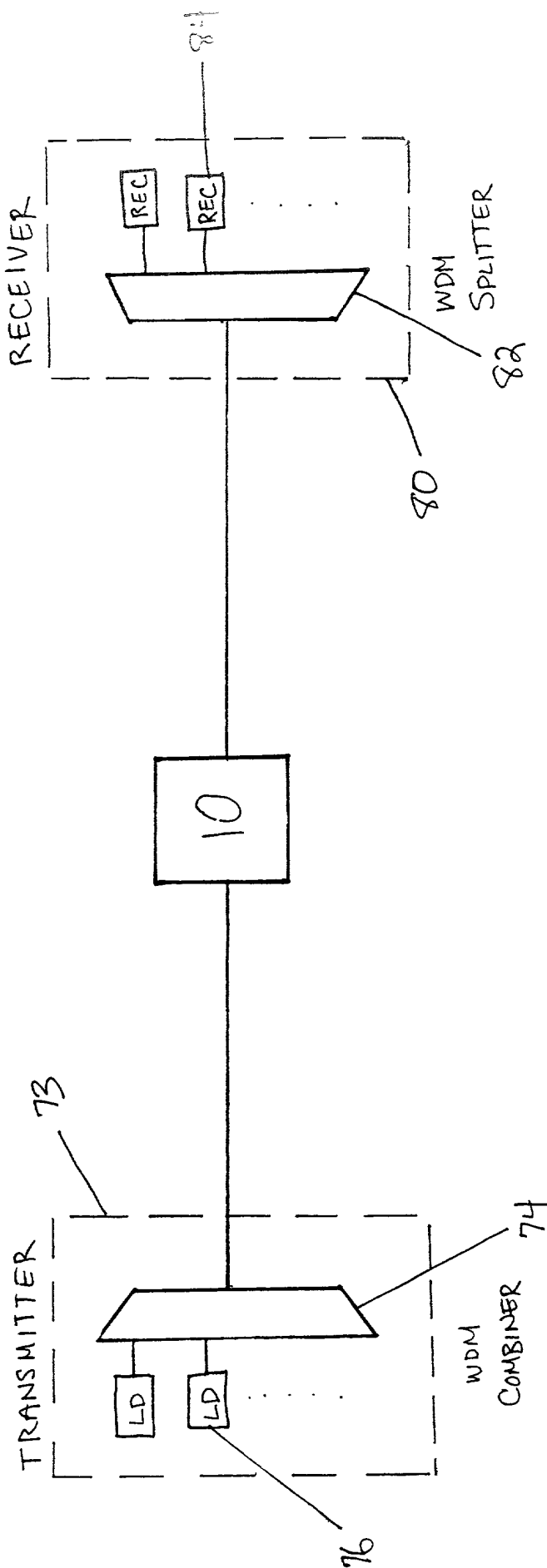


FIG. 15



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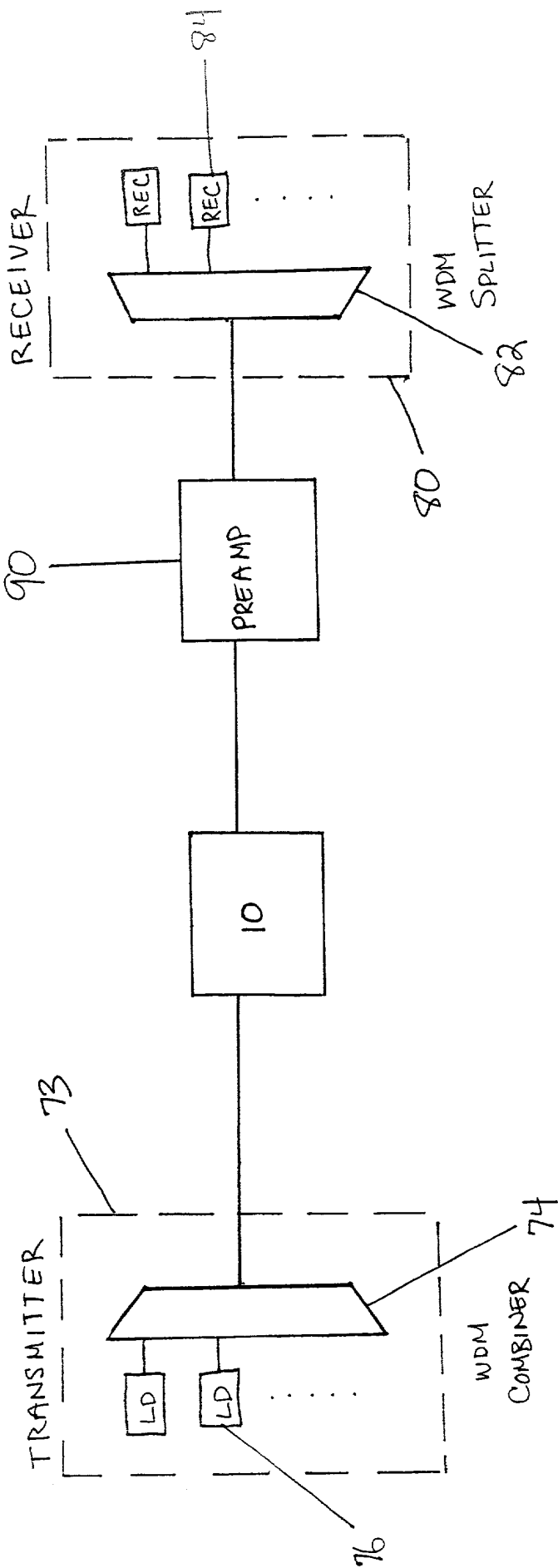


FIG. 16

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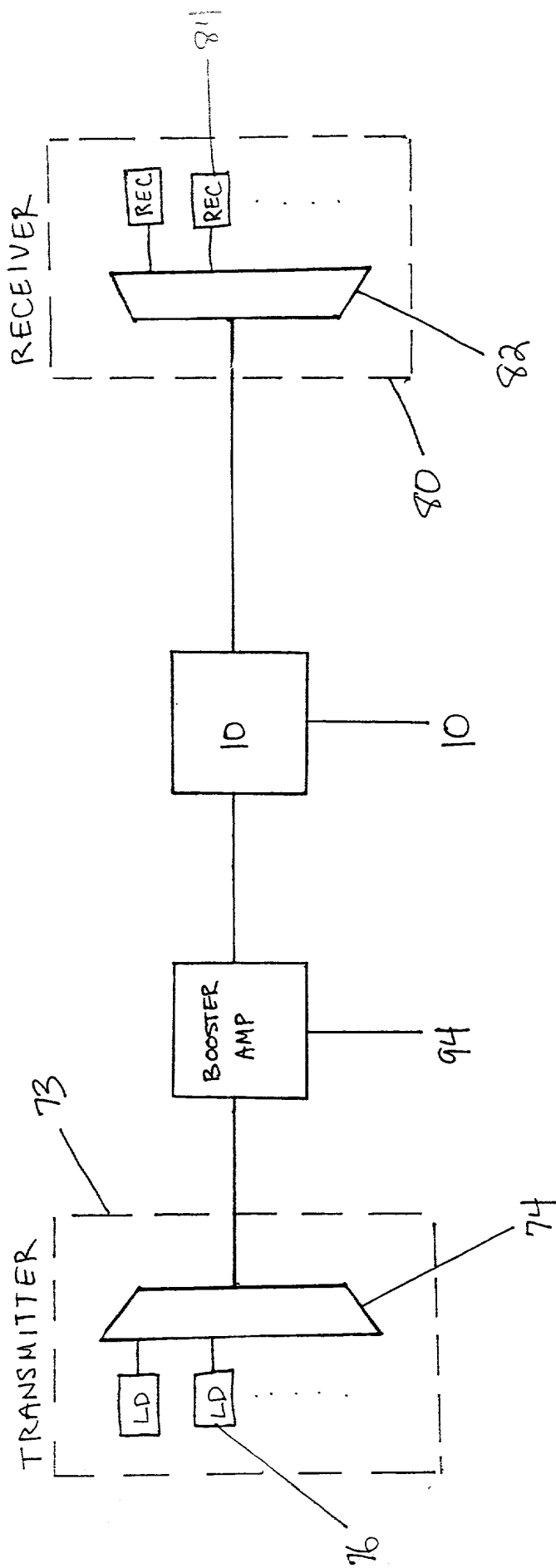


FIG. 17

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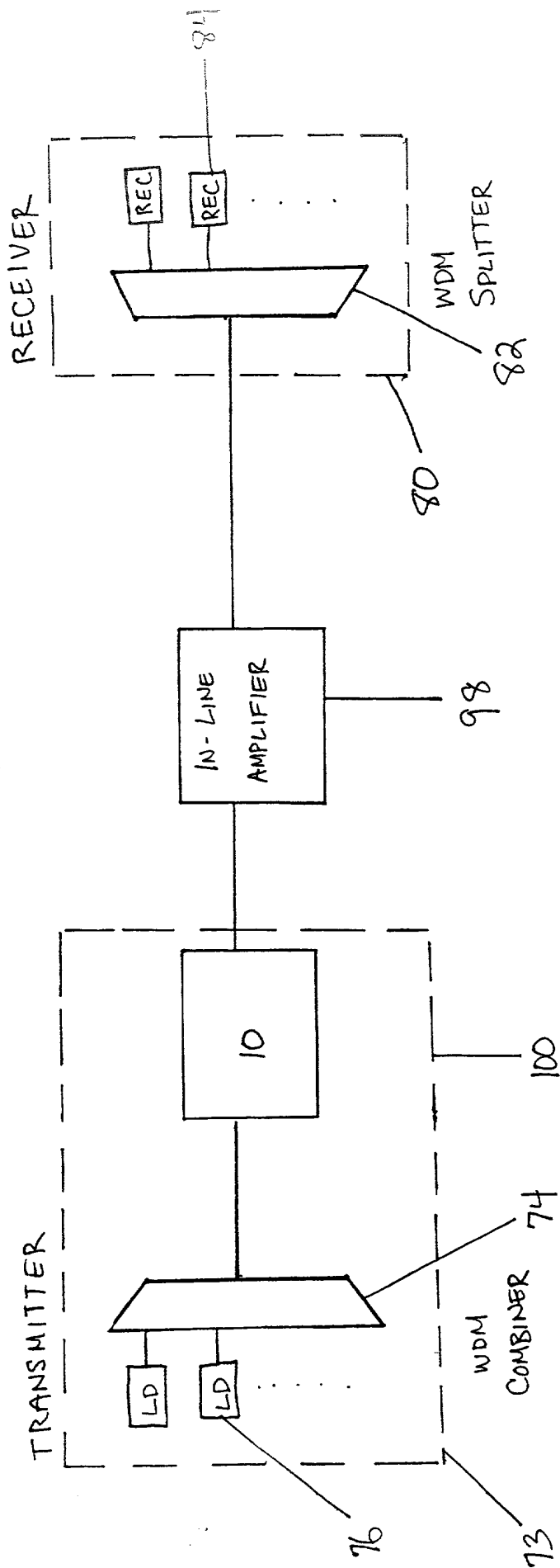


FIG. 18

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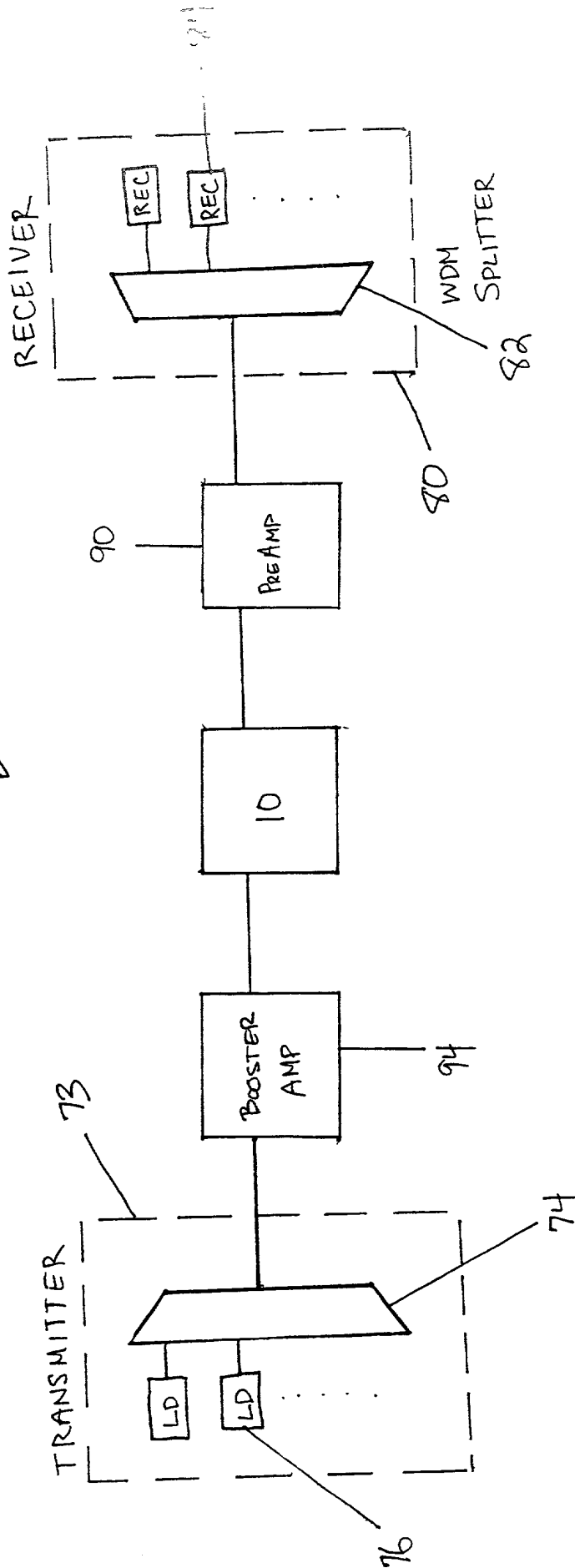


FIG. 19